

KAARDE, I.A., prof.; KHERUVIMOV, V.P.; SEVRUK, O.; LUZYANIN, E.;
LESNIK, E.; POTAPOV, V.M.; SIKORSKIY, A.N.

Brief news. Veterinarija 41 no.6:122-125 Je '64.
(MIRA 18:6)

POTAPOV, V. M.

POTAPOV, V. M. -- "Conditions of the Transient of Currents in
Source Cables of High-Electric Strength." Iss 21 Apr 71, Moscow Inst.
of Engineers of Water Resources inst. I. A. Vavilov. (Dissertation "for
the Degree of Candidate in Technical Sciences")

10: Vecherniaia Moskva, Moscow - December 1972

BRODSKIY, L.I., inzhener; POTAPOV, V.M., kandidat tekhnicheskikh nauk.

Measures against sludge ice at the Kuban River water barrier.

Gidr. i mel. 6 no.12:56-59 D '54. (MIRA 8:1)

(Kuban River--Ice on rivers, lakes, etc.)
(Weirs)

POTAPOV, V.M., kandidat tekhnicheskikh nauk; VARTAZAROV, S.Ya., kandidat tekhnicheskikh nauk; SAFONOV, P.V., redaktor; VOLKOV, V.S., tekhnicheskiy redaktor

[Ice conditions in rural diversion hydroelectric stations] Ledovyi rezhim derivatsionnykh sel'skikh gidroelektrostantsii. Moskva, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1955. 173 p.

(Hydroelectric power stations) (Ice)

ZHELEZNYAKOV, G.V., prof.doktor tekhn.nauk; POTAPOV, V.M., kand.tekhn.nauk

"Studying winter conditions of rivers in conducting engineering
research for hydroelectric power stations" by IA.L.Gotlib and
others. Reviewed by G.V.Zholezniakov, V.M.Potapov. Gidr.stroi.
30:3 of cover Ag '60. (MIRA 13:8)
(Ice on rivers, lakes, etc)
(Hydraulics)

GOL'DMAN, M.M.; ZHUCHKOV, N.D.; SOROKATYY, V.M.; SUBKHANBERDIN,
S.Kh.; POTAFOV, V.M.; SHARIPOVA, M., red.

[New drugs. Novye lekarstvennye preparaty. Alma-Ata, Izd-
vo "Kazakhstan," 1965. 371 p. (MIRA18:8)]

1. Zaveduyushchiy kafedroy farmatsevticheskikh distsiplin
Alma-Atinskogo instituta usovershenstvovaniya vrachey (for
Gol'dman).

POTAPOV, V.N.; MATALASOV, S.F., kand.tekhn.nauk; MALAKHOV, K.N.

New design requirements for freight cars. Zhel.dor.transp.
44 no.8:28-32 Ag '62. (MIRA 15:3)

1. Nachal'nik Glavnogo gruzovogo upravleniya Ministerstva putey
soobshcheniya (for Potapov). 2. Glavnyy inzh. Glavnogo gruzovogo
upravleniya Ministerstva putey soobshcheniya (for Malakhov).
(Railroads--Freight cars--Design and construction)

1. POTAPOV, V. N.
2. УЗСР (600)
4. Karakul Sheep
7. Organization and procedure of judging lambs at the Syutkenskiy State Farm.
Kar. i zver. 6 no. 1, 1953
9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

1. POTAPOV, V. P.
2. USSR 600
4. Polynomials
7. Divisors of a nearly periodic polynomial, Sbor. trud. Inst. mat. AN USSR, No. 12, 1949.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

POTAPOV, V. P.

USSR/Mathematics - Matrices

1 Jun 50

"Multiplication Theorem of Characteristic Matrix Functions," M. S. Livshits, V. P. Potapov, Odessa State Pedagogical Inst imeni K. D. Ushinskii

"Dok Ak Nauk SSSR" Vol LXXII, No 4, pp 625-628

Studies spectra of quasi-unitary operators and their invariant subspaces, in which concept of normed characteristic functions is introduced to permit establishing a correspondence between quasi-unitary operators and analytic matrix functions. Submitted 5 Apr 50 by Acad A. N. Kolmogorov.

PA 165T30

Potapov, V. P.

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3

Potapov, V. P. On holomorphic matrix functions bounded in the unit circle. Doklady Akad. Nauk SSSR (N.S.) 72, 849-852 (1950). (Russian)

The author proves a series of theorems on matrix-functions $w(z)$ of a complex scalar variable z , culminating in the following analogue of the Poisson-Jensen formula: Let $w(z)$ be holomorphic and bounded in $|z| < 1$, and let its determinant not vanish identically. Then there exists a representation

$$w(z) = B(z) \int_0^1 \exp \left[\frac{\lambda + e^{i\theta t}}{\lambda - e^{i\theta t}} dE(t) \right],$$

where $B(z)$ is a "Blaecklike product" of certain canonical factors associated with the zeros of the determinant of $w(z)$, $E(t)$ is a monotone increasing family of Hermitian matrices, $t = \text{tr } E(t)$ and $\theta(t)$ is a monotone increasing function with $0 \leq \theta(t) \leq 2\pi$. The integral \int is a Stieltjes multiplicative integral. There are slight affinities with the work of C. L. Siegel [Amer. Math. J. 65, 1-86 (1943); these Rev. 4, 242], and with the theory of systems of differential equations [see Livšic, same Doklady 72, 1013-1016 (1950); these Rev. 13, 747].

F. V. Atkinson (Ibadan).

Source: Mathematical Reviews.

Vol. 13 No. 8

POTAPOV, V. P.

About the theory of associated systems of differential equations, by V. P. Potapov.
Doklady Akad. Nauk SSSR, n. Ser. 72, 1013-1016 (1950).

VYSOKOVSKIY, S.N.; RANEYEV, G.G.; MERKULOVA, R.M.; RYBIN, O.N.;
LOGVINOV, L.M.; SHIRTS, V.V.; POTAPOV, V.P.

Efficient rolling conditions and the introduction of strain
gauges for controlling metal pressure on rolls. Biul. tekhn.-
ekon. inform. Gos. nauch.-issl. inst. nauch. i tekhn. inform.
17 no.12:7-9 D '64. (MIRA 18:3)

• MARCHIK, V. N.

Dissertation: "Multiplicative Structure of Analytic J-Nonextending Matrix Functions." Dr Phys-Math Sci, Moscow State Pedagogical Inst imeni V. I. Lenin, 12 Apr 54. (Vechernaya Moskva, Moscow, 13 Apr 54)

SO: SUM 243, 19 Oct 1954

SUBJECT USSR/MATHEMATICS/Theory of functions CARD 1/2 PG - 59
 AUTHOR POTAPOV V.P.
 TITLE The multiplicative structure of the J-stretching-free matrices.
 PERIODICAL Trudy Moskovsk. mat. Obšč. 4, 125-236 (1955)
 reviewed 6/1956

For analytic functions $w(\zeta)$, which are regular with $|w(\zeta)|$ for $|\zeta| < 1$, a representation

$$w(\zeta) = e^{i\vartheta_0} \prod \left(\frac{\zeta_k - \zeta}{1 - \bar{\zeta}_k \zeta} \cdot \frac{|\zeta_k|}{\zeta_k} \right) e^{\int_{-\pi}^{\zeta} \frac{\zeta + e^{i\theta}}{\zeta - e^{i\theta}} d\sigma(\theta)},$$

is known, where $\sigma(\theta)$ is a function of bounded variation. Now the author considers unique, analytic functions in $w(\zeta)$ with $|\zeta| < 1$ the "values" of which are matrices of m -th order. By a Hermitean metrix being indefinite in the general case, the condition $|w(\zeta)| < 1$ is generalized. For $q \geq 0$, $p + q = m$

the matrix $J = \begin{pmatrix} I_p & 0 \\ 0 & -I_q \end{pmatrix}$ is used, where I_p and I_q are the unit matrices of the orders given by the indices. The matrix $w(\zeta)Jw^*(\zeta) - J$ is submitted to the condition that $w(\zeta)Jw^*(\zeta) - J$ is a non-positive Hermitean matrix. The principal result is that every such matrix $w(\zeta)$, which is not identical singular in ζ , permits the following representation:

$$w(\zeta) = L_\infty(\zeta) L_0(\zeta) \int e^{\int_{\zeta}^t \frac{\zeta + e^{i\theta(t)}}{\zeta - e^{i\theta(t)}} dE(t)} dE(t).$$

Trudy Moskovsk. mat. Obsch. 4, 125-236 (1955)

CARD 2/2 PG - 59

There holds

$$\mathcal{L}_\infty(\zeta) = \prod V_k \begin{pmatrix} I_{m-q'_k} & 0 \\ 0 & \frac{1-\bar{\mu}_k \zeta}{\mu_k - \zeta} I_{q'_k} \end{pmatrix} V_k^{-1},$$

$$\mathcal{L}_0(\zeta) = \prod W_j \begin{pmatrix} \frac{\lambda_j - \zeta}{1 - \bar{\lambda}_j \zeta} \frac{|\lambda_j|}{\lambda_j} I_{p'_j} & 0 \\ 0 & I_{m-p'_j} \end{pmatrix} W_j^{-1},$$

where the products are taken over the poles μ_k and the zeros λ_j of $|w(\zeta)|$ in the unit circle, where $q'_k \leq q$, $p'_j \leq p$ and the matrices V_k and W_j satisfy the conditions $V_k^* V_k = J$, $W_j^* W_j = J$. The integral is the multiplicative matrix integral of Volterra-Schlesinger, but generalized a according to the Stieltjes integral notion.

A detailed sketch of the proof for the case of defined metric ($q=0$) is given. The proof in the general case begins with the transfer of the lemmas of Schwartz and Julia to the considered class of matrices; then the "elementary factors" are discussed from which the "Blaschke products" \mathcal{L}_∞ , \mathcal{L}_0 are composed. In a further chapter the convergence of both Blaschke products is proved and the effect of their splitting up is discussed. Then for the remaining matrix function without poles and zeros the integral representation is deduced. In an annex the multiplicative Stieltjes integral is considered.

POTAPOV, V.P.; SHAFIRKIN, B.I.

Hauling and the development of freight handling in the past 40 years. Zhel dor. transp. 39 no.12:15-20 D '57. (MIRA 11:1)

1. Nachal'nik Glavnogo gruzovogo upravleniya Ministerstva putey soobshcheniya (for Potapov). 2. Zamestitel' nachal'nika Glavnogo gruzovogo upravleniya Ministerstva putey soobshcheniya (for Shafirkin).

(Railroads--Freight)

RANNEV, G.G.; VYSOKOVSKIY, S.N.; MIRKULOVA, F.M.; LOGVINOV, L.M.;
FOTAPOV, V.I.; SHTRIBIS, V.V.

Using continuous operating dynamometers on strip mills.
Metallurg 10 no.6:25-27 Je '65. (MIRA 16.4,

1. Nauchno-issledovatel'skiy institut metallurgii i Ashinskij
metallurgicheskiy zavod.

MARKOV, N.N.; POTAPOV, V.P.

Geology and oil potentials of the Yarino-Kamennoyukoye
deposit in Perm Province. Trudy VNIGNI no.36:60-69 '63.
(NTR 17:9)

YUSHKEVICH, Ye.P., kand. tekhn. nauk; VOROBEY, A.K., kand. tekhn. nauk; TRUSHIN, A.M., inzh.; POTAPOV, V.P., inzh., retsenzent; SHISHKIN, G.S., inzh., red.; DMCZDCVA, N.D., tekhn. red.

[Centralized freight transportation; experience of railroad and automotive transportation in White Russia] TSentralizovанные перевозки грузов; опыт земельного и автомобильного транспорта Белоруссии. Москва, Transzheldorizdat, 1963. 66 p. (MIRA 16:10)
(White Russia--Freight and freightage)

POTAPOV, V.P., inzh.

"Prospects of a more efficient organization of freight transportation" by K. L. Sheiman. Reviewed by V. P. Potapov. Zhel. dor. transp. 45 no.4:93-95 Ap '63. (MIRA 16:4)

(Railroads—Freight) (Sheiman, K.L.)

MARTYNOV, M.S.; POTAPOV, V.P., inzh., retsenzent; SOTNIKOVA, M.A.,
inzh., retsenzent; SHISHLYKOV, Ye.S., inzh., red.;
VOROTNIKOVA, L.F., tekhn. red.

[Transportation of perishable goods] Perevozki skoroprotia-
shchikhsia gruzov. Moskva, Transzheldorizdat, 1963. 331 p.
(MIRA 16:7)

(Railroads--Freight) (Refrigerator cars)

PLADIS, Feliks Antonovich; ROSTOVSKAYA, Ye.P.; ORLOV, V.G.; POTAPOV,
V.P., inzh., retsenzent; PREDE, V.Yu., inzh., red.;
MEDVEDEVA, M.A., tekhn. red.

[Tables for determining the weight of freight by volume
measurement and estimation] Tablitsy dlja opredelenija vesa
gruzov po obmeru i raschetu. Moskva, Transzheldorizdat,
1963. 126 p. (MIRA 16:5)
(Railroads--Freight--Tables)

DE JIBAS, Andrey Terent'evich; POTAPOV, Vladimir Pavlovich; BABAK, L.G., inzh., retsenzent; SAMOYLOV, I.A., retsenzent; CHUMACIK, A.I., inzh., retsenzent; GOLOBN, N.D., kand. tekhn. nauk, prepodavatel', retsenzent; DZHUMABAYEV, S.M., inzh., prepodavatel', retsenzent; MATALASOV, S.F., kand. tekhn. nauk, red.; MAKUNI, Ye.V., tekhn. red.

[Organization of freight and commercial operations]Organizatsiya gruzovoi i kommercheskoi raboty. Izd.2., perer. i dop. Moskva, Transzhelkorizdat, 1961. 253 p. (MIRA 15:10)

1. Kafedra "Organizatsiya gruzovoy i kommercheskoy raboty" Tashkentskogo instituta inzhenerov zheleznodorozhnoego transporta (for Gordon, Dzhumabayev).
(Railroads--Management) (Railroads--Freight)

OSINOVSKAYA, Rakhil' Izrailevna; POTAPOV, V.P., inzh., retsenzent;
PREDE, V.Yu., inzh., red.; VOROTNIKOVA, L.F., tekhn. red.

[Commercial work on foreign railroads] Kommercheskaia rabota
na zarubezhnykh zheleznykh dorogakh. Moskva, Transzheldor-
izdat, 1962. 90 p. (MIRA 15:7)
(Railroads—Freight)

NIVINSKIY, Yevgeniy Borisovich; SHAFIRKIN, Boris Isaakovich; BESHENKO,
I.M., inzh., retsenzent; POTAPOV, V.P., inzh., retsenzent;
FERAPONTOV, G.V., inzh., red.; VOROTNIKOVA, L.F., tekhn. red.

[Freight transportation for agriculture] Perevozki gruzov dlia
sel'skogo khoziaistva. Moskva, Transzheldorizdat, 1962. 86 p.
(MIRA 15:6)
(Freight and freightage)

POTAPOV, V.P.

New aspects of the organization of railroad freight and commercial operations. Zhel.dor.transp. 42 no.9:67-72 S '60.

(MIRA 13:9)

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soobshcheniya.

(Railroads--Management)

VINOGRADOVA, Yevgeniya Nikolayevna; MARTYNOV, Mikhail Stepanovich;
OHLOV, Viktor Grigor'yevich; POTAPOV, Vladimir Pavlovich;
BOROVAY, N.Ye., red.; KHITROVA, N.A., tekhn.red.

[Experience in the transportation of farm produce] Opyt perevozok
sel'skokhoziaistvennykh gruzov. Moskva, Vses.izdatel'sko-poligr.
ob"edinenie M-va putei soobshcheniya, 1960. 55 p.

(MIRA 13:10)

(Farm produce--Transportation)

POTUZNIK, V.; HAVLIK, J.; KOTT, B.

Polyvalent hemagglutination test in enteric infections. Česk. epidem. mikrob. imun. 9 no.4:231-234 Je '60.

1. Krajska hyg.-epid. stanice v Českych Budejovicích a infekční klinika Lek. fak. hyg., Praha 8 - Bulovka.

(*SAIMONELLA* INFECTIONS immunol.)

(*SHIGELLA* infections)

(HEMAGGLUTINATION)

POVALYAYEV, M.I., inzh.

Thermal and technical properties of cellular concretes. Trudy
MIT no.122:197-209 '59. (MIRA 13:5)
(Concrete--Thermal properties)
(Railroads--Buildings and structures)

POVALYAYEV, M.I., inzh.

Determining the coefficients of heat transfer by the plane
heat pulse method. Trudy MIIT no.122:210-214 '59.

(MIRA 13:5)

(Concrete--Thermal properties) (Heat--Transmission)

POVOROZHENKO, Vladimir Vasil'yevich, prof., doktor tekhn.nauk;
KOSTENKO, Ivan Georgiyevich, kand.tekhn.nauk; MAKHOTKIN,
Nikolay Aleksandrovich, inzh.; EUMYANTSEV, Sergey Mikhay-
lovich, inzh.; PARAKHONSKIY, Boris Mikhaylovich, kand.ekon.
nauk; SOLOV'IEV, Ivan Fomich, kand.tekhn.nauk; BAKAYEV,
V.G., doktor tekhn.nauk, red.; CHERNOMORDIK, G.I., doktor
tekhn.nauk, nauchnyy red.; IRKHIN, A.P., kand.tekhn.nauk,
nauchnyy red.; KUDRYAVTSEV, A.S., doktor ekon.nauk, nauchnyy
red.; GLADTSINOV, B.N., kand.tekhn.nauk, nauchnyy red.;
EYGEL', I.Yu., red.; LAVRENOVA, N.B., tekhn.red.

[Transportation in the U.S.S.R.] Transport SSSR. Pod
obshchei red. V.G.Bakaeva. Moskva, Izd-vo "Morskoi transport,"
1960. 536 p. (MIRA 13:7)

(Transportation)

POTAPOV, V.P., redaktor; KANSHIN, M.D.; L'VITSYN, N.F.; MASTERITSYN, N.N.; NOZDRIN, A.A.; NIKITYUK, A.P.; PADNYA, V.A.; RIDEL', E.I.; FERAPONTOV, G.V.; SHAMAYEV, M.F.; SHATSKAYA, E.P.; GULEV, Ya.F., redaktor; VERINA, G.P., tekhnicheskiy redaktor.

[Advanced methods for workers in material handling] Perekovyye metody truda kommercheskikh rabotnikov. Moskva, Gos. transp. zhel-dor. izd-vo, 1953. 262 p. [Microfilm] (MLRA 7:11) (Material handling)

SOV/137-58-7-15494

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 224 (USSR)

AUTHORS: Pyankov, N.N., Graf, E.K., Potapov, V.P.

TITLE: A Method for Combatting Corrosion of the Underground Equipment of Wells in the Krasnokamsk Oilfield (Metod bor'by s korroziyey podzemnogo oborudovaniya skvazhin na Krasnokamskom neftepromysle)

PERIODICAL: Novosti neft. tekhn. Neftepromysl. delo, 1957, Nr 9, pp 26-29

ABSTRACT: A combination of measures taken at the Krasnokamsk oil field for combatting corrosion (C) of equipment is described. An increase in C of underground equipment of the wells was caused by the appearance of O₂ in entrained gas caused by the pumping of air into the collectors holding sulfide oil with an admixture of H₂S. Measures taken against C consisted of cleansing of the products of C of the inner surface of casings and of the outer surface of pump and pressure pipes and the coating of the cleansed surfaces with a mixture of petrolatum with Krasnokamsk oil and paraffin waste. Designs of devices for the cleansing and coating of the pipes are described. The abovedescribed methods of prevention have considerably decreased but not completely eliminated C of pumps and pipes. Inhibitors must be used.

Z.F.

1. Petroleum industry--Equipment 2. Industrial equipment--Corrosion 3. Pipes-Cleaning 4. Anticorrosive coatings--Materials

Card 1/1

POTAPOV, V.P.; SHAFIRKIN, B.I.

Planning freight haulage in relation to the creation of economic districts. Zhel.dor.transp. 39 no.8:8-13 Ag '57. (MLRA 10:9)

1. Nachal'nik Glavnogo upravleniya Ministerstva putey soobshcheniya (for Potapov). 2. Zamestitel' nachal'nika Glavnogo gruzovogo upravleniya Ministerstva putey soobshcheniya (for Shafirkin).
(Railroads--Freight) (Russia--Economic policy)

REPOV, V.I., Inzhener.

Part of railroads' promoters in increasing railroad freight traffic.
Izmer. v. 0.33; 2 4 .7:11-19 Aug '52. (See 1:1)

L.Nachal'mik ogranichivayushchego upravleniya Ministerstva po slobodshcheniyu v. 1. (Not already -- freight)

POTAPOV, V. P.

Livšic, M. S., and Potapov, V. P. A theorem on the multiplication of characteristic matrix functions. (Russian) Akad. Nauk SSSR, 72, 625-628 (1956). (Russian)

The authors state (without proof) five theorems of which the principal one exhibits a complete set of invariants for the unitary equivalence of two quasi-unitary operators. The distinguishing invariant is a suitably normalized characteristic matrix function associated with such operators. For the terminology see the preceding review.

P. R. Halmos (Chicago, Ill.)

Source: Mathematical Reviews, Vol. 11 No. 44

POTAPOV, V.P., SMOLYAKOV, V.F., KALINNIKOV, E.S.

"Influence of Slag Composition on Ball-Bearing Steel Contamination by Non-Metallic Inclusions,"
lecture given at the Fourth Conference on Steelmaking, A.A. Baikov Institute of Metallurgy, Moscow, July 1-6, 1957

POTAPOV, V. P. and G. GRINEVICH

Mekhanizatsiiia gruzovykh rabot na zheleznodorozhnykh stantsiiakh. /Mechanization
of freight handling in railway station/. (Zhel-dor. transport, 1947, no. 5, p. 11-21).
DLC: HE7.25

SO: Soviet Transportation and Communication, A Bibliography, Library of Congress
Reference Department, Washington, 1952 Unclassified

POTAFOV, V.P. and A. T. DERIBAS

Organizatsiia gruzovoi i kommercheskoi raboty v krupnykh uzlakh. / Organization of freight and commercial operations in important railroad junctions /. (Zhel-dor. transport, 1947, no. 10, p.9-15).

DLC: HE7.Z6

SO: Soviet Transportation and Communication, A Bibliography, Library of Congress Reference Department, Washington, 1952 Unclassified

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USSR/Railways - General
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Dec 1947

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Summaries and information on number of pages and price given for following books published by Transzheldorizdat in 1947: "Soviet Railroad Transport 1917 - 1947," by I. V. Kovalyev; "Transportation of Easily Perishable Freight," by S. F. Matalasov and V. P. Potapov; "Locomotives Ea and Em," by N. G. Luginin; "Operational-statistical Accounting at a Station," by b. I. Petrokanskiy and O. V. Myasnikova; "New Technology in Installing Communications and Light Signals (STsB)"; "Steel Concrete Which Has Been Previously under Tension," by A. P. Korovkin.

LC

13G54

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Kommercheskaia ekspluatatsiia zheleznykh dorog SSSR. /Commercial basis of railroad operation of the U.S.S.R./. Dopushchено v kachestve ucheb. posobiia dlja institutov zhel-dor. transporta. Moskva, Gos. transp. zhel-dor. izd-vo, 1950. 415 p. illus.
DS DLC: TF662.P58

SO: Soviet Transportation and Communications. A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

POTAPOV, V.P.

MATALASOV, S.F.; POTAPOV, V.P.; SHISHLYKOV, Ye.S., inzhener, redaktor;
YUDZON, D.M., tekhnicheskiy redaktor

[Refrigeration and organization of perishable goods transportation]
Kholodil'noe delo i organizatsiya perevozok skoroporiashchikhsia
gruzov na zheleznykh dorogakh. Moskva, Gos. transp. zhel-dor. izd-
vo, 1953. 263 p.

(Refrigeration and refrigerating machinery)
(Refrigerator cars) (Food--Preservation)

POTAPOV,V.P.;BARKAN,I.N.; DEM'YANKOV,N.V.; KANSHIN,M.D.; L'VITSYN,N.F.;
MASTERITSYN,N.N.; NOZDRIN,A.A.; PADNYA,V.A.; RIDEL',E.I.; FERAPON-
TOV,G.V.; SHAMAYEV,M.F.; SHATSKAYA,E.P.; SHAVKIN,G.B., inzhener,
redaktor; KHITROV,P.A., tekhnicheskiy redaktor

[Advanced methods in shipment and commercial handling of goods]
Perekovyye metody truda gruzovykh i kommercheskikh rabotnikov, Izd.
2-oe. Moskva, Gos.transp.zhel-dor. izd-vo, 1955. 286 p.
(MLRA 9:2)
(Material handling) (Transportation--Equipment and supplies)

KOVALISHINA, I.V.; POTAPOV, V.P.

Multiplicative structure of analytic real J-expanding matrix
functions. Izv. AN Arm. SSR. Ser. fiz.-mat. nauk 18 no.6:3-10
'65. (MIRA 19:1)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy
promyshlennosti.

PETROV, V.P.

Relation between the permeability, oil saturation, and specific
electrical resistivity of lower and Middle Carboniferous oil
and gas reservoirs in the Kama portion of Perm Province. Neftegaz.
geol. i geofiz. no.8:27-30 '65. (MJRA 18:3)

1. Kamskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
geologorazvedochnogo neftyanogo instituta.

YUDOVICH, S.Z.; ABRAMOV, V.V.; GABUYEV, G.Kh.; FRANTSOV, V.P.; SMOLYAKOV,
V.F.; SYPKO, A.V.; TRAVININ, V.I.; POTAPOVA, V.P.

Effect of the method of smelting and processing on the quality of
the DI-1 heat-resistant stainless steel. Stal' 25 no.8:752-753
(MIRA 18:8)
Ag '65.

ANTONYUK, I.D.; ORLOV, V.G.; SAMSONOV, A.V.; ASHIKHMİN, A.K., inzh.,
retsenzent; ZHIL'TSOV, P.N., inzh., retsenzent; KOZAK, V.A.,
inzh., retsenzent; POGODIN, A.M., inzh.; POTAPOV, V.P., inzh.,
retsenzent; RYSHCHUK, N.S., red.; BOBROVA, Ye.N., tekhn.red.

[Handbook for the station master] Spravochnik nachal'nika
stantsii. Moskva, Transzheldorizdat, 1963. 571 p.
(MIRA 17:2)

BESHKETO, V.K.; KOZLOVSKIY, M.G.; KUPRIN, V.A.; FLEYSHMAN, V.A.;
MALAKHOV, K.N., inzh., retsenzent; PCTAPOV, V.P., inzh.,
red.; VOROB'YEVA, L.V., tekhn. red.

[Transportation service for industrial enterprises; from
the experience of the West Siberian Railroad] Transportnoe
obsluzhivanie promyshlennykh predpriatii; iz opyta Zapadno-
Sibirskoi zheleznoi dorogi. Moskva, Transport, 1964. 86 p.
(MIRA 17:1)

POTAPOV, V.P.

Some results of the use of self-potential diagrams in determining
the porosity of productive strata of the Yasnaya Polyana substage ~
the lower Carboniferous in the Perm area of the Kama Valley. Trudy VNII
no.29:176-179 '60. (MIRA 13:10,

1. Tsentral'naya nauchno-issledovatel'skaya laboratoriya Permskogo
sovnarkhoza.
(Perm Province--Oil well logging, Electric)

POTAPOV, V.P., redaktor; SHAFIRKIN, B.I., redaktor; MANYUKOV, G.S.,
inzhener, redaktor; BOBROVA, Ye.N., tekhnicheskiy redaktor

[Problems in the efficient transportation of main freight]
Voprosy ratsionalizatsii perevozok vazhneishikh gruzov; sbornik
statei. Moskva, Gos. transp. zhel-dor. izd-vo, 1957. 270 p.
(Railroads--Freight) (MLRA 10:4)

POTAPOV, Valeriy Rafailovich, inzh.; NIKOLAYEV, Igor' Antoi'yevich, inzh.
KURDIN, Viktor Petrovich, inzh.

Use of an electron-beam tube for shaping number images.
Izv. vys. ucheb. zav.; elektromekh. 4 no.11:87-91 '61.
(MIRA 14:12)

1. Vychislitel'nyy tsentr Rostovskogo gosudarstvennogo
universiteta.

(Cathode ray oscilloscope)
(Electron beams)

POTAPOV, V.S., redaktor; BOHISOV, A.S., tekhnicheskij redaktor.

[Materials on the laboratory testing of soils] Materialy po laboratornomu issledovaniu gruntov. Moskva, Gos. izd-vo geol. lit-ry, 1952. 87 p. [Microfilm] (MLRA 8:1)

1. Russia (1923- U.S.S.R.) Ministerstvo geologii.
(Soil mechanics)

242T81

USSR/Mathematics - Pedagogy Sep/Oct 52

"Third Mathematical Olympiad of Students of City of Stalingrad," I. G. Mikhaylov and V. S. Potapov

"Usp Matemat Nauk" Vol 7, No 5(51), pp 242-6

Discuss yearly all-city mathematical olympiad in Stalingrad for the school year 1951-52, which was organized by the Chair of Mathematics of the Pedagogic Inst. Give the various problems posed for the various classes of students. Example of a problem for highest class (10th): Solve and investigate the equation $(a-1) \cos x + (a+1) \sin x = 2a$.

242T81

Potapov, V.S.

✓ Potapov, V.S. The work of V. P. Ermakov on vector
algebra from the history of mathematics. Stalingrad.
7/1953 Gos. Ned. Inst. Uč. Zap. 1953, no. 3. 3-8 (Russian)

Rots.

Fwd. by

POTAPOV, V.S.; MIKHAYLOV, I.G.

Fourth mathematical olympiad in Stalingrad. Usp.mat.nauk 8 no.6:163-
168 N-D '53. (MLRA 6:12)
(Stalingrad--Mathematics) (Mathematics--Stalingrad)

POTAPOV, Vladimir Sergeyevich, inzhener; VUL'F, V.V., inzhener, redaktor,
KHITROV, P.A. tekhnicheskiy redaktor.

[Locomotive maintenance shops; the work practice of leading shops]
Zagotovitel'nye tsukhi parovoznykh depo; opyt raboty peredovykh
depo. Moskva, Gos. transp. zhel-dor. izd-vo, 1954. 139 p. (MLRA 8:7)
(Locomotives—Repairs)

40/10/00/61

MIKOV, D.S.; POTAPOV, V.S., redaktor izdatel'stva; KRYNOCHKINA, K.V.,
tekhnicheskiy redaktor

[Atlas of theoretical curves for the interpretation of magnetic
and gravitational anomalies]Atlas teoreticheskikh krivykh dlja
interpretatsii magnitnykh i gravitatsionnykh anomalii. Pereizdanie.
Tomsk, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane
nedr, 1956. 15 p., 128 graphs (MLRA 10:4)
(Magnetism, Terrestrial)(Gravity)

KALININ, S.K.,; NAYMARK, L.E.,; MARZUVANOV, V.L.,; ISMAGULOVA, K.I.;
RUSANOV, A.K., professor, doktor tekhnicheskikh nauk, redaktor;
POTAPOV, V.S., redaktor izdatel'stva; GUROVA, O.A., tekhnicheskiy
redaktor

[Atlas of spectrum lines for a glass spectrograph; explanatory
text and 26 diagrams] Atlas spektral'nykh linii dlia stekliannogo
spektrografa; poiasnitel'nyi tekst i 26 planshetov. Pod red.
A.K. Rusanova. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol.
i okhrane nedr, 1956. 45 p., 26 l. (MIRA 10:4)
(Spectrum analysis--Tables, etc.)

PCIA RDP86 1342

ORLOVA, Yelena Vladimirovna; MARKOVA, Yekaterina Ivanovna; KOTLYAR.V.N.,
redaktor; POTAPOV, V.S., redaktor izdatel'stva; GYROVA, O.A., tekhnicheskiy redaktor.

[Copper, lead and zinc resources of capitalist countries] Resursy
medi, svintsa i tsinka v kapitalisticheskikh stranakh. Moskva, Gos.
nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. 1957. 227 p.
(MLRA 10:6)

(Copper) (Lead) (Zinc)

ALBAGACHIYEVA, Valentina Andreyevna; POTAPOV, V.S., ved. red.

[Conditions of the formation of slightly mineral hot
springs in northern Transbaikalia] Uchoviaia formirovaniia
istochnikov tipa akratoterm. v severnom Zabaikal'e. Mo-
skva, Nedra, 1965. 78 p. (I.I.A 18.9)

POTAPOV, V.S., inzh.; BAKANOV, V.I., inzh.

Results of the testing of the industrial 26El electric locomotive.
Vest.TSNII MPS 22 no.6:35-39 '63. (MIRA 16:10)

KOZYREV, Yu.M., inzh.; POTAPOV, V.S., inzh.

Narrow-gauge electric diesel locomotive. Torf. prom. 39 no.7:
15-19 '62. (MIRA 16:8)

i. Vsesoyuznyy nauchno-issledovatel'skiy institut zhelezno-dorozhnogo transporta Ministerstva putey soobshcheniya.
(Diesel locomotives)
(Railroads, Industrial)

POTAPOV, V.S., inzh.

Some suggestions concerning the maintenance of EH1 electric
locomotives. Elek. i teplo. tiaga 4 no. 9:15-16 8 '60.
(MIRA 13:12)

(Electric locomotives--Maintenance and repair)

POTAPOV, V.S., inzh.

Potentialities for reducing the idle time of locomotives during
flushing. Zhel.dor.transp. 40 no.4:24-28 Ap '58.
(MIRA 13:4)

(Locomotives--Maintenance and repair)

YEFIMOV, P.I., kandidat tekhnicheskikh nauk; DUDAL', F.R., inzhener;
POTAPOV, V.S., inzhener, redaktor; KHITROV, P.A., tekhnicheskiy
redaktor

[Flushing operation for locomotive FD in one shift; work practice
of a brigade at the Krasnyy Liman-Sever depot of the Donets K.I.
Panichev Railroad Line] Promyvochnyi remont parovozov FD za odnu
smenu; opyt raboty brigadira kompleksoi brigady depo Krasnyi
Liman-Sever Donetskoi dorogi K.I.Panicheva. Moskva, Gos.transp.
zhel-dor izd-vo, 1955. 61 p.
(Locomotives--Repair) (MLRA 9:3)

ARKHANGEL'SKIY, B.N.; BELYAKOVA, Ye.Ye.; GUREVICH, M.S.; ZAYTSEV, I.K., red.;
ZINOV'YEVA, T.V.; MITGARTS, B.B.; MOROZOV, V.M.; PETROVA, N.A.
ESPOPOV, M.P.; TOLSTIKHIN, N.I.; TOLSTIKHIN, O.N.; POTAPOV, V.S.,
red.; GUROVA, O.A., tekhn. red.

[Explanatory notes to a hydrochemical map of the U.S.S.R. on a
scale of 1:5,000,000] Ob"iasnitel'naja zapiska k gidrokhimicheskoi
karte SSSR v masshtabe 1 : 5,000,000. Red. I.K. Zaitsev. Moskva,
Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1958.
138 p. (MIRA 11:7)

1. Leningrad. Vsesoiuznyy geologicheskiy institut.
(Water, Underground--Maps)

L 42987-66 ENT(m)/EWP(j) IJF(c) RM/JND

ACC NR: AP6013274 (A) SOURCE CODE: UR/0413/66/000/008/0078/0078

INVENTOR: Dogadkin, B. A.; Tutorskiy, I. A.; Shvarts, A. G.; Potapov, Ye. E.;
Frolikova, V. G.

303

ORG: none

TITLE: Method of modifying rubber. Class 39, No. 180790

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 78

TOPIC TAGS: natural rubber, synthetic rubber, aminophenol, hydroxy compound,
aromatic hydroxy compound, rubber modification

ABSTRACT: An Author Certificate has been issued for a method of modifying
natural and synthetic rubbers by introducing hexamethylenetetramine and aromatic
hydroxy compounds into the mixture. To improve the physical and mechanical
properties of the rubber, aminophenols are used as an aromatic hydroxy compound.
[Translation]

[NT]

SUB CODE: 11,07 / SUBM DATE: 09Jan65 /

UDC: 678.4.7.046-9:547.564.4

Card 1/1 hsl

L 29119-65 EWT(m)/EPF(c)/EWP(f)/T Ps-4/Pr-4 RM

ACCESSION NR: AP5005485

S/0032/65/031/002/0241/0243

AUTHORS: Tutorskiy, I. A.; Potapov, Ye. E.; Kamaletdinov, Kh. S.

41

TITLE: Recording cryometer for determining molecular weight of polymers 1

39

SOURCE: Zavodskaya laboratoriya, v. 31, no. 2, 1965, 241-243

B

TOPIC TAGS: cryogenic device, polymer, molecular weight, automatic recording, temperature measurement/ MMT 4A thermistor, R 329 bridge, MOD 54 bridge, KVT potentiometer

ABSTRACT: A recording cryometer with thermistors to be used in determining the molecular weight of low-molecular weight products and polymers is described. The instrument consists of a cryoscopic cell similar to that of D. Vofsi and A. Katchalsky (J. Polym. Sci., 26, 127, 1957), a temperature indicator, a magnetic stirrer, an ultrathermostat, a bridge resistance for measuring the temperature, and an electronic potentiometer for automatic recording. The molecular weight M is determined for an ideal solution $\Delta T = \frac{RT^2}{1000l} \cdot m \cdot km$, where l is the specific heat of crystallization of the solvent and $m = w/M$ is the number of moles of the solute per 1000 g. The temperature change is determined from the bridge measurement

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L 29119-65

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ACCESSION NR: AP5005485

$\Delta R = SAT$, where S is the bridge constant. To determine ΔR , the instrument constant Q is defined as $Q = M \cdot m_{C_6} \frac{\Delta R}{C}$. For naphthalene, Q is 3.31×10^4 . By this method the molecular weight of cyclo-rubber is determined to be between 1700-2000. Student Yu. Ol'khov participated in this experiment. Orig. art. has: 5 formulas and 4 figures.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonosova (Moscow Institute of Fine Chemical Technology)

SUBMITTED: 00 ENCL: 00 SUB CODE: TD, 00

NO REF SOV: 000 OTHER: 001

Card 2/2

KARELIN, V.A.; POTAPOV, Ye.G., kand.med.nauk (Moskva)

Using the rheovasographic method for registering peripheral circulation during surgery; preliminary report. Klin.med. 35 no.11:112-117 N '57. (MIRA 11:2)

(SURGERY, OPERATIVE, blood in circ., rheovasographic determ.)
(BLOOD CIRCULATION perop., determ. with rheovasography)

POTAPOV, Ye. V.

ALEKSEYEVSKIY, N.Ye.; POTAPOV, Ye.V.

Calorimetric method for determining the optical constant of metals
in the infrared spectrum range at low temperatures. Zhur. eksp. i
teor. fiz. 33 no.1:283-284 J1 '57. (MLRA 10:9)

1. Institut fizicheskikh problem Akademii nauk SSSR.
(Metals--Optical properties)

POTAPOV Ye. V.

AUTHOR: ALEKSEYEVSKIY, N.Ye., POTAPOV, Ye.V. 56-7-51/66
TITLE: A Calorimetric Method of Determining the Optical Metal Constants
in the Infrared Part of the Spectrum at Low Temperatures.
(Kalorimetricheskiy metod opredeleniya opticheskikh konstant
metallov v infrakrasnoy oblasti spektra pri nizkikh tempera-
turakh, Russian)
PERIODICAL: Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol 33, Nr 7, pp 283-284
(U.S.S.R.)
ABSTRACT: The construction of a device is described by means of a graph, by
means of which it is possible to determine the two optical metal
constants simultaneously. For bismuth the constants are deter-
mined in the wave range of 1 - 7 μ and an angle of incidence of
70°: $n = 2$ and $x = 2.5$, wherefrom it follows that $|\epsilon| = 2.2$,
which, in turn, corresponds to $N \approx 3 \cdot 10^{20}$. (With 1 Illustration
and 2 Slavic References).
ASSOCIATION: Institute for Physical Problems of the Academy of Sciences of the
U.S.S.R. (Institut fizicheskikh problem Akademii nauk SSSR)
PRESENTED BY:
SUBMITTED: 3.4.1957
AVAILABLE: Library of Congress
Card 1/1

POTAPOV, Ye.V.

Metal cryostat for optical investigations at liquid helium temperatures.
Prib.i tekhn.eksp. 7 no.1:192-193 Ja-F '62. (MIRA 15:3)

1. Institut fizicheskikh problem AN SSSR.
(Cryostat)

POTATOV, Ye.V.

Optical properties of bismuth and antimony in the infrared spectral
region at low temperatures. Zhur. eksp. i teor. fiz. 47 no.2:464-472
Ag 164. (MIRA 17:10)

1. Institut fiziko-tehnicheskikh i radiotekhnicheskikh izmerenii.

L 13919-65 EWT(m)/EWP(w)/EWA(d)/EWP(t)/EWP(o) IJP(c)/AFMD(t)/AFWL/AS(mo)-2/
ASD(a)-5/SSD/RAEM(a)/SSD(gs)/SSD(dp)/SSD(t) JD
ACCESSION NR: AP4043617 S/0056/64/047/002/0464/0472

AUTHOR: Potapov, Ye. V.

TITLE: Optical properties of bismuth and antimony in the infrared region of the spectrum at low temperatures

SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 8, 1964, 464-472

TOPIC TAGS: bismuth, antimony, infrared spectrum, low temperature research, absorption coefficient, refractive index, dielectric constant

ABSTRACT: This research was undertaken because numerical values are still unavailable for all the constants involved in the Abrikosov theory of the dependence of the dielectric constant of a metal on the frequency of the incident light (ZhETF v. 44, 2039, 1963). The refractive index n and the absorption coefficient κ were measured for bulk polycrystalline samples of Bi, Sb, Bi + 0.05% Te,

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L 13919-65
ACCESSION NR: AP4043617

and Bi + 0.5% Te. The measurements were carried out by the absorption method in the wavelength range 1--14 μ at 2.5K, using a procedure described elsewhere (N. Ye. Alekseyevskiy and Ye. V. Potapov, ZhETF v. 33, 283, 1957). The real and imaginary parts of the dielectric constant ϵ were calculated and compared with the results of the Abrikosov theory. In the case of Bi + 0.05% Te the behavior of ϵ_{es} and ϵ_{im} differ little from the corresponding results for Sb, owing to the equal carrier density in the Bi alloy and in the Sb alloy. "I am grateful to N. Ye. Alekseyevskiy for continuous help and for constant advice, to A. A. Abrikosov for consultations and for a discussion of the present article, and to A. Golovashkin and V. Starunov for help with the work." Orig. art. has: 8 figures, 8 formulas, and 1 table.

ASSOCIATION: Institut fiziko-tehnicheskikh i radiotekhnicheskikh izmereniy (Institute of Physicotechnical and Radiotechnical Measurements)

SUBMITTED: 19Mar64

ENCL: 01

SUB CODE: OP

NO REF Sov: 010

OTHER: 005

2/3

L 13919-65
ACCESSION NR: AP4043617

O
ENCLOSURE: 01

Fig. 1. Optical constants of bismuth and antimony

λ, μ	Bi		Bi + 0,05% Te		Bi + 0,5% Te		Sb	
	n	x	n	x	n	x	n	x
1	1,7	3,3	1,5	2,6	1,6	2,6	2,8	4,5
2	2,0	3,2	1,8	2,8	2,0	2,8	3,4	4,4
3	2,1	3,3	2,0	2,9	2,4	2,9	4,0	4,3
4	2,2	3,4	2,2	3,0	2,7	3,0	4,4	4,1
5	2,3	3,4	2,3	3,0	2,8	2,9	4,8	4,0
6	2,4	3,5	2,4	3,1	2,9	2,6	5,0	4,0
7	2,4	3,6	2,5	3,1	2,9	2,2	5,1	3,9
8	2,5	3,7	2,8	3,1	2,7	1,9	4,9	3,9
9	2,5	3,9	3,2	3,1	2,0	1,8	4,4	3,8
10	2,6	4,0	3,7	3,0	1,2	2,0	2,0	3,9
11	2,9	4,1	3,5	2,8	0,8	2,4	2,0	5,0
12	3,8	4,3	2,4	2,4	0,6	3,0	6,0	9,0
13	5,0	4,4	1,7	2,0				
14			1,5	2,1				

Card 3/3

43133
S/181/62/004/011/036/049
B108/B102

04770

AUTHORS: Gubkin, A. N., Kashtanova, A. M., Potapov, Ye. V., and Solodukhin, A. V.

TITLE: Nonlinear properties and phase transitions in strontium-bismuth titanates

PERIODICAL: Fizika tverdogo tela, v. 4, no. 11, 1962, 3295 - 3300

TEXT: Earlier work (FTT, 2, 12, 3077, 1960; 3, 4, 1110, 1961) in studying the nonlinear properties of the system $\text{SrTiO}_3\text{-Bi}_2\text{O}_3\text{-}3\text{TiO}_2$ is continued.

The specimens had relaxation properties. The maxima of the ϵ and $\tan \delta$ versus temperature curves are shifted to higher temperatures when the frequency of the field applied is increased. The dependences of ϵ and $\tan \delta$ on the field strength, and the hysteresis loop, both have the same characteristics as those of ferroelectrics, but the characteristic jumps of ϵ associated with phase transitions do not occur. This fact supports the suggestion that the nonlinear properties may be caused by relaxation polarization, but low-temperature minima of the coefficient of linear expansion are indicative of phase transitions from the paraelectric into

Card 1/2

GUBKIN, A.N.; KASHTANOVA, A.M.; POTAPOV, Ye.V.; SOLODUKHIN, A.V.

Nonlinear properties and phase shifts in strontium-bismuth titanates. Fiz. tver. tela 4 no.11:3293-3300 N '62.

(MIRA 15:12)

1. Fizicheskiy institut imeni P.N. Lebedeva AN SSSR,
Moskva.

(Systems (Chemistry)) (Dielectric constant)

35800

12 P160

S/120/62/000/001/050/061
E039/E485

AUTHOR: Potapov, Ye.V.

TITLE: A metallic cryostat for optical investigations at helium temperatures

PERIODICAL: Pribory i tekhnika eksperimenta, no.1, 1962, 192-193

TEXT: The cryostat described permits the introduction of a beam of light into the Dewar flask through a window maintained at room temperature. The inner flask for the liquid helium is made of thin walled stainless steel and has a capacity of 250 cm³. A thick copper bottom is soldered to this flask and from it a copper cold conducting rod goes vertically down the observation chamber in which is mounted the sample. Concentric with the helium flask is a copper annular flask for liquid nitrogen. Both external walls of this flask are polished. The bottom of the liquid nitrogen flask is also of thick copper to which is attached a copper screen which shields the observation chamber from room radiation. These flasks are surrounded by a vacuum envelope and supported from it by stainless steel tubes. Charcoal absorbers are used to improve the vacuum. The lower part of the vacuum

Card 1/2

A metallic cryostat ...

S/120/62/000/001/050/061
E039/E485

envelope can be removed in order to gain access to the observation chamber. The window in this chamber is of optical glass and the window in the outer envelope is plastic KRS-5. There is a temperature difference of a few tenths of a degree between the sample and the helium bath. This difference is greater at lower temperatures because of the change in thermal conductivity of copper with temperature. (At 2°K the thermal conductivity of copper is 0.1 cal/sec cm°K while at 4.2°K it is 0.2 cal/sec cm°K.) The cryostat has been in use for three years for the determination of optical constants for metals in the infrared region of the spectrum. N.Ye.Alekseyevskiy is thanked for valuable advice and instructions. There is 1 figure.

ASSOCIATION: Institut fizicheskikh problem AN SSSR
(Institute of Physical Problems AS USSR)

SUBMITTED: May 10, 1961

Card 2/2

POTAPOV, V.Ya.

Dynamics of the carbohydrate composition of *Alopecurus ventricosus*
in central Yakutia. Nauch. soob. IAFAN SSSR no.5:51-57 '61.
(MIRA 14:12)
(Yakutsk region--Foxtail) (Carbohydrates) (Plants--Chemical analysis)

SHAPOV, Yu

USSR
Radio Technician

"On the quality of Films Shown", Pravda, December 22 page 2.

See Current Digest of the Soviet Press, Vol. 2, No. 51, 1951,
page 35. (In [redacted] Library)

SOKOLOV, V.S., inzh.; LAZAREV, A.A., inzh.; POPOV, V.N., kand.tekhn.nauk;
TARASOV, A.H., inzh.; POTAPOV, Yu.A., inzh.

Results of using the TSNIDI combustion chamber for KDM diesel tractors.
Trakt. i sel'khozmash. 30 no.9:15-17 S '60. (MIRA 13:9)

1. TSentral'nyy nauchno-issledovatel'skiy dizel'nyy institut (for
Sokolov). 2. Chelyabinskij traktornyy zavod (for Potapov).
(Diesel engines)

L 0125-00 S-1 (m) // 2 tr (J)

ACC NR: AP5025440

SOURCE CODE: UR/0097/65/000/009/0031/0032

AUTHORS: Potapov, Yu. B. (Engineer); Zalan, L. M. (Engineer)

ORG: none

TITLE: Creep of a plastoconcrete of FAM resin under compression

SOURCE: Beton i zhelezobeton, no. 9, 1965, 31-32

TOPIC TAGS: resin, construction material, plastic compound, creep characteristic, concrete/ FAM resin, FA resin, 2GMS 20 universal machine

ABSTRACT: A study was conducted of the creep characteristics of plastoconcrete containing FAM resin which is similar to FA resin but contains a higher percentage of furfural. Specimens (4 x 4 x 16 cm) were prepared according to standard plasto-concrete specifications. The specimens were vibrated for 5 to 6 minutes and cured at 15 to 20°C and 60 to 80% humidity for one day. This was followed by a heat treatment at 80°C for one day. The strength limit was determined on a 2GMS-20 universal machine and was found to be 650 kg/cm². Creep testing was performed on special lever presses, loads were applied by levers and hinge-jointed supports, and deformations were measured to the nearest 0.5 micron. The rate of loading was 600 kg/cm² per minute. Fig. 1 shows a plot of the creep curves for specimens loaded to 20, 30, 40, and 52% of the strength limit. Similar plots are given for the creep characteristics

Card 1/2

UDC: 620.1:666.97:691.175

Card 2/2 Jw

APPROVED FOR RELEASE

POTAPOV, Yu. B. and YABLONSKIY, S. V.

"On the Synthesis of Self-Correcting Networks" (18 March 1960).
DAN SSSR 344, No. 3, 1960, 544.

paper delivered at the Moscow State University in 1959/1960 academic year at
the seminar on mathematical problems of cybernetics under the leadership of
S. V. Yablonskiy

POTAPOV, Yu. F.

Cand Tech Sci - (diss) "Principles of the demolition process for mountain rocks by use of ball-shaped small-diameter chisels." Moscow, 1961. 12 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Order of Labor Red Banner Inst of Petroleum Chemistry and Gas Industry imeni I. M.Gubkin); 200 copies; price not given; (KL, 6-61 sup, 223)

POTAPOV, Yu.F.; SIMONOV, V.V.

Studying the process of breaking rock with roller bits. Izv. vys.
ucheb. zav.; neft' i gaz 3 no.5:35-41 '60. (MIRA 15:6)

1. Tatarskiy nauchno-issledovatel'skiy institut i Moskovskiy
institut neftekhimicheskoy i gazovoy promyshlennosti imeni
akademika I.M. Gubkina.

(Boring)

POTAPOV, Yu.F.; SIMONOV, V.V.

Effect of power input on the efficiency of rock breaking.
Izv. vys. ucheb. zav.; neft' i gaz 3 no.7:35-41 '60. (MIR 15:5)

1. Tatarskiy neftyanoy nauchno-issledovatel'skiy institut i
Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
imeni akademika I.M. Gubkina.
(Oil well drilling)

POTAPOV, Yuriy Fedorovich; SIMONOV, Vladimir Vladimirovich; KAYESHKOVA,
S.M., vedushchiy red.; TROFIMOV, A.V., tekhn. red.

[Breaking rock with small diameter, three-cone bits] Razrushenie
gornykh porod trekhsharoshechnymi dolotami malogo diametra. Mo-
skva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry,
1961. 85 p. (MIRA 14:6)

(Rock drills)

SIMONOV, V.V.; POTAPOV, Yu.F.

Wear of three roller slim bits. Trudy MINKHIGP no.35:31-41
'61. (MIRA 14:11)
(Boring machinery)

13,2000

83895
S/020/60/134/003/003/020
B019/B060

AUTHORS: Potapov, Yu. G., Yablonskiy, S. V.

TITLE: The Synthesis of Self-correcting Contact Circuits

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 134, No. 3,
pp. 544 - 547

TEXT: A control system J_α is always realized by a circuit Σi_α , the behavior of which is described by the function $\phi_{1\alpha}$. The latter can be unequivocally determined from Σi_α in a number of cases. Σi_α is then realized by the function $\phi_{1\alpha} = F(\Sigma i_\alpha)$, and in this case a function is established between the set U of control systems (after Yablonskiy, Ref. 1) and the sets $S = \{\Sigma i_\alpha\}$ and $F = \{\phi_{1\alpha}\}$ in such a way that $\phi = F(\Sigma)$. It is further assumed that the circuits Σ go over into a troubled state Σ' , so that $\Sigma' \in S$ holds. Then there exists a subset S' of all circuits Σ' , which represents the troubled states of circuits Σ .

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The Synthesis of Self-correcting Contact Circuits

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These troubled states are described by a function G , so that $S_{\Sigma} = G(\Sigma)$. The authors then offer a definition of a self-correcting circuit, according to which, in the case of any trouble, the circuit Σ' is realized by the same function as the circuit Σ . The question is raised as to whether such circuits exist at all, and it is shown that a self-correcting contact circuit can be set up for any function $\Phi(x_1, \dots, x_n)$. These circuits, however, are very complicated, and reference is made to first results reached by Potapov under restricting premises. A more general solution of the problem is dealt with in the present article. The authors define a function $L_3^m(n)$ which characterizes the complicity of a circuit. This circuit is based on the premise being described by a function $\Phi(x_1, \dots, x_n)$ and of being self-correcting in the case of short-circuits in m contacts. Theorem 1 is set up and demonstrated, and according to it $L_3^1(n) \sim (2^n)/n$. A paper by O. B. Lupanov (Ref. 2) is referred to in the demonstration. Fig. 2 shows the self-correcting circuit constructed by the authors, and function L is estimated. Theorem 1 is

Card 2/3

NAGIBINA, M.S.; POTAPOV, Yu.I.

Tectonics of the Tugura-Nimelena Trough (western part in the
region of the Sea of Okhotsk). Trudy GIN no.139:30-59 '65.
(MIRA 18:9)

ACCESSION NR: AP4041853

S/0139/64/000/003/0134/0139

AUTHORS: Shalimova, K. V.; Travina, T. S.; Potapov, Yu. V.; Starostin, V. V.

TITLE: Electric properties of polycrystalline cadmium sulfide films

SOURCE: IVUZ. Fizika, no. 3, 1964, 134-139

TOPIC TAGS: cadmium sulfide, thin film, sublimated film, carrier density, carrier mobility, Hall effect, electric conductivity

ABSTRACT: The purpose of the research was to study and to learn to control the electric properties of sputtered layers of cadmium sulfide. The thin polycrystalline films were obtained by evaporating nonluminescent cadmium-sulfide powder in vacuum (10^5 -- 10^{-6} mm Hg) and also in spectrally pure argon and hydrogen sulfide (0.5--1 mm Hg). The substrate was insulating and its temperature could be varied and controlled. The evaporator of the initial material could also be

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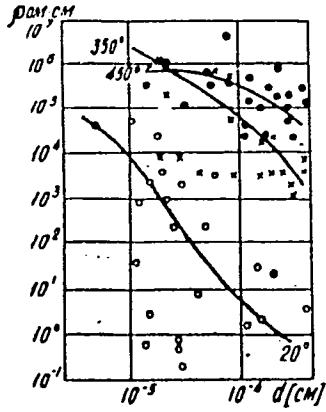
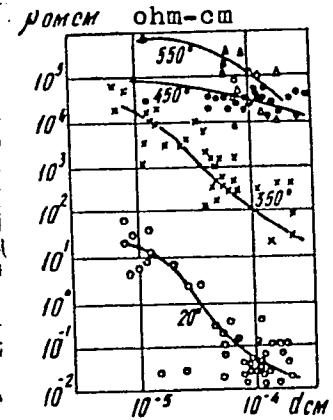
ACCESSION NR: AP4041853

varied from 500 to 1100C. The electric conductivity and the Hall effect in these film specimens were investigated as functions of the sublimation temperature of the initial substance, and also of the medium in which the films were sputtered, and the substrate temperature at the instant of condensation of the semiconductor layer on the substrate. Data are given on the electric conductivity of these layers as functions of the medium, sputtering of the initial powder, its sublimation temperature, heating of the substrate on which the specimen is deposited, and the thickness of the sample. The Hall-effect measurements of cadmium-sulfide films obtained under different technological conditions are used to calculate the mobility and density of the carriers. A connection is established between the mobility and the density or thickness of the layer. The experimental and theoretical data are compared. It is concluded that at the instant when the sulfide layer is sputtered, excess cadmium atoms penetrate into it, and these determine the dark conductivity of the sample, along with exerting an influence on the scattering of

Cards 2/6

ACCESSION NR: AP4041853

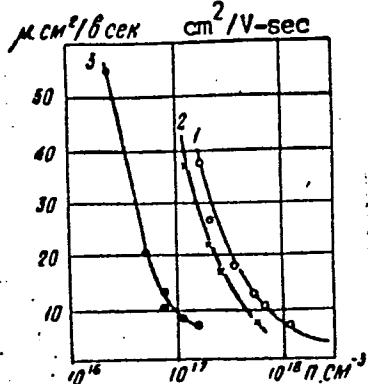
ENCLOSURE: 01



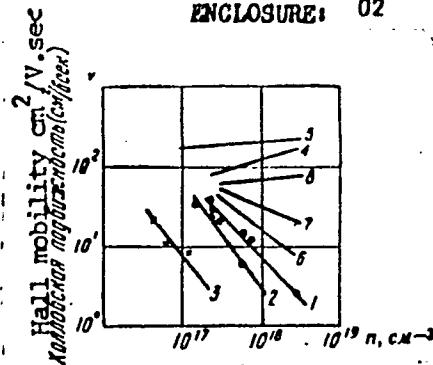
Dependence of resistivity on the thickness of cadmium sulfide films obtained in the following manner: Left - by sputtering the initial powder in an argon atmosphere on substrates heated to 20, 350, 450, and 550°C. Right - by sputtering in a hydrogen sulfide atmosphere on specially heated substrates, and also on substrates heated to 350 and 450C

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ACCESSION NR: AP4041053



ENCLOSURE: 02



Dependence of carrier mobility on their density in cadmium sulfide. Left - obtained by vacuum sputtering and having different resistivities. Right - 1, 2, 3 - experimental data on films, 4, 5 - data on single crystals obtained elsewhere, 6, 7, 8 - theoretical curves for several densities.

Card 5/6

SHALIMOVA, K.V.; TRAVINA, T.S.; POTAPOV, Yu.V.; STAROSTIN, V.V.

Electric properties of polycrystalline cadmium sulfide
films. Izv. vys. ucheb. zav.; fiz. no. 3:134-139 '64.
(MIRA 17:9)